

[PRICE 6D.]

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

Age	Sex	Height	Weight	Arm span	Hand span	Hand width	Hand length	Hand area	Hand volume	Hand mass	Hand density
10	M	140	35	170	18	8	10	80	100	100	1.0
10	F	135	30	165	17	7	9	70	90	90	0.9
11	M	150	40	180	19	9	11	90	110	110	1.1
11	F	145	35	175	18	8	10	80	100	100	1.0
12	M	160	45	190	20	10	12	100	120	120	1.2
12	F	155	40	185	19	9	11	90	110	110	1.1
13	M	170	50	200	21	11	13	110	130	130	1.3
13	F	165	45	195	20	10	12	100	120	120	1.2
14	M	180	55	210	22	12	14	120	140	140	1.4
14	F	175	50	205	21	11	13	110	130	130	1.3
15	M	190	60	220	23	13	15	130	150	150	1.5
15	F	185	55	215	22	12	14	120	140	140	1.4
16	M	200	65	230	24	14	16	140	160	160	1.6
16	F	195	60	225	23	13	15	130	150	150	1.5
17	M	210	70	240	25	15	17	150	170	170	1.7
17	F	205	65	235	24	14	16	140	160	160	1.6
18	M	220	75	250	26	16	18	160	180	180	1.8
18	F	215	70	245	25	15	17	150	170	170	1.7
19	M	230	80	260	27	17	19	170	190	190	1.9
19	F	225	75	255	26	16	18	160	180	180	1.8
20	M	240	85	270	28	18	20	180	200	200	2.0
20	F	235	80	265	27	17	19	170	190	190	1.9

PENINSULAR AND ORIENTAL STEAM NAVIGATION

The following resolutions were agreed to:-

1. That the report now read be received, adopted, and circulated amongst the proprietors.
2. That a dividend of 25 per cent., for the six months ending past September, 1864, recommended in the report now read, be payable on or after the 25th December, 1864, between the hours of Twelve and Three o'clock on each day, to such proprietors as are duly qualified to receive the same.
3. That the sum of £2,000 be appropriated out of the profits, and be laid out and invested in Government or other approved securities, towards the formation of a reserve fund.
4. That the thanks of this meeting be given to the managing directors, and the general board, for their exertions in obtaining the contract for the mail service on the Pacific Coast.

LONDON, Nov. 26. — MONDAY EVENING NEWS.

BY HER MAJESTY'S ROYAL LETTERS PATENT.
SMART'S ELLIPTICAL CONVEX METALLIC FLOATS.
FOR STEAM-SHIPS, as applied to the Bristol and Dublin steamer *SMART*,
RUGG, and to the *SWIFT*, between Newcastle and Bristol. — The patentee has now
the satisfaction to announce, that, in addition to the ships already named, he has
granted a LICENSE to the Bristol General Steam Navigation Company to use his
PATENT FLOAT in all their steam-ships, comprising the *Dublin*, *Cork*, *Waterford*,
and the various Channel port steamers, varying in power from forty horses to one
hundred and more. — The numerous ADVANTAGES attending this valuable invention
may be seen below: —

1. The appearance of these floats is light and elegant.
2. Their durability and sturdiness are indisputable, as may be witnessed by the *Smart*,
steamer, which has been fitted with them for eight months, and has since
sailed nearly twenty thousand miles. The floats are now in as good a state as they
were the first day.
3. Vibration is reduced so as to be scarcely perceptible; thus the engines are
eased, and both they and the ship suffer less wear and tear, and, from their peculiar
form, they are strikingly advantageous in cases of strong head wind and heavy sea.

4. They improve the action of the propellers on a ship in cases of distress, the narrow side taking the water when this operation is performed. This is of great importance in preventing collisions, or backing off a shore.

5. They are very simple and are easily worked by any public wheel, at nearly the same cost as the common rudd, and THEY INCREASE THE SPEED MORE THAN ONE HUNDRED PER HUNDRED.

For License to use them, for which the charge is 1s. per horse power, apply to the patentee, Mr. ROBERT F. SMART, 5, Grenville place, Hatfield, Bristol, who will previously attend the fitting if required, his travelling expenses being paid.

AGENTS.

Messrs. George Linnell and Co., engineers and shipbuilders, Bristol.

— W. J. Le Fèvre, Eng., Southampton.

— J. N. Smart, Esq., Swansea.

— Thomas Muirhead, Esq., engineer, Leith, near Edinburgh.

— W. H. Hutchinson, Esq., Hull.

31

— J. B. F. N. Eng., Dublin and Liverpool.
* Testimonial of the highest order, on application to the patentee or his agents.
Hobart, December, 1944.

ANDREW SMITH begs to refer **SHIPOWNERS** and **CAPTAINS** to the following **TESTIMONIALS**, in proof of the utility of his **PATENT WIRE ROPE**, on **STANDING RIGGING**, and is prepared to guarantee the owners of any ship of its superiority and cheapness over blemish rigging.

Marine Surveyor's Office, Liverpool, June 2, 1942.

GAWTLAUGH.—In reply to your letter of yesterday, requesting my opinion of the Patent Wire Rope, I have to state, that, having used it on the **YARR**, the first ship of this port—viz., the **Comet**, the **Alford**, and the **Queen**, I am fully convinced of its merits, and consider it particularly well adapted for vessels of this description, from its great strength, lightness, suppleness of size, and the nearly total absence of expansion and contraction under the gradual changes of temperature and moisture; these advantages being very important in vessels exposed, as light-

I am, Gentlemen, your obedient servant,
 (Signed) WILLIAM LORD.
 Messrs. Robertson, Alexander, and Co., Agents for Smith's Patent Wire Rugs,
 Liverpool.
 London, March, 1844.
 Sir,—I have much pleasure in stating, that my solicitor has been advised that
 your Patent Wire Rugs, are creating a rivalry, for nearly eight years, and it now
 appears as good as where you were the most loved. During that time the embargo
 has been constantly actual, and trading in the British Colonies.
 I am, Sir, your obedient servant,
 (Signed) THOMAS MARSHALL.
 To Mr. Andrew Smith.
 The following are the names of a few of the vessels fitted with Patent Wire Rugs:
 Belonging to Government. Years fitted.
 Fairmount Lightship. 1844. 1845. 1846. 1847. 1848. 1849. 1850. 1851. 1852. 1853. 1854. 1855. 1856. 1857. 1858. 1859. 1860. 1861. 1862. 1863. 1864. 1865. 1866. 1867. 1868. 1869. 1870. 1871. 1872. 1873. 1874. 1875. 1876. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2130. 2131. 2132. 2133. 2134. 2135. 2136. 2137. 2138. 2139. 2140. 2141. 2142. 2143. 2144. 2145. 2146. 2147. 2148. 2149. 2150. 2151. 2152. 2153. 2154. 2155. 2156. 2157. 2158. 2159. 2160. 2161. 2162. 2163. 2164. 2165. 2166. 2167. 2168. 2169. 2170. 2171. 2172. 2173. 2174. 2175. 2176. 2177. 2178. 2179. 2180. 2181. 2182. 2183. 2184. 2185. 2186. 2187. 2188. 2189. 2190. 2191. 2192. 2193. 2194. 2195. 2196. 2197. 2198. 2199. 2200. 2201. 2202. 2203. 2204. 2205. 2206. 2207. 2208. 2209. 2210. 2211. 2212. 2213. 2214. 2215. 2216. 2217. 2218. 2219. 2220. 2221. 2222. 2223. 2224. 2225. 2226. 2227. 2228. 2229. 2230. 2231. 2232. 2233. 2234. 2235. 2236. 2237. 2238. 2239. 2240. 2241. 2242. 2243. 2244. 2245. 2246. 2247. 2248. 2249. 2250. 2251. 2252. 2253. 2254. 2255. 2256. 2257. 2258. 2259. 2260. 2261. 2262. 2263. 2264. 2265. 2266. 2267. 2268. 2269. 2270. 2271. 2272. 2273. 2274. 2275. 2276. 2277. 2278. 2279. 2280. 2281. 2282. 2283. 2284. 2285. 2286. 2287. 2288. 2289. 2290. 2291. 2292. 2293. 2294. 2295. 2296. 2297. 2298. 2299. 2300. 2301. 2302. 2303. 2304. 2305. 2306. 2307. 2308. 2309. 2310. 2311. 2312. 2313. 2314. 2315. 2316. 2317. 2318. 2319. 2320. 2321. 2322. 2323. 2324. 2325. 2326. 2327. 2328. 2329. 2330. 2331. 2332. 2333. 2334. 2335. 2336. 2337. 2338. 2339. 2340. 2341. 2342. 2343. 2344. 2345. 2346. 2347. 2348. 2349. 2350. 2351. 2352. 2353. 2354. 2355. 2356. 2357. 2358. 2359. 2360. 2361. 2362. 2363. 2364. 2365. 2366. 2367. 2368. 2369. 2370. 2371. 2372. 2373. 2374. 2375. 2376. 2377. 2378. 2379. 2380. 2381. 2382. 2383. 2384. 2385. 2386. 2387. 2388. 2389. 2390. 2391. 2392. 2393. 2394. 2395. 2396. 2397. 2398. 2399. 2400. 2401. 2402. 2403. 2404. 2405. 2406. 2407. 2408. 2409. 2410. 2411. 2412. 2413. 2414. 2415. 2416. 2417. 2418. 2419. 2420. 2421. 2422. 2423. 2424. 2425. 2426. 2427. 2428. 2429. 2430. 2431. 2432. 2433. 2434. 2435. 2436. 2437. 2438. 2439. 2440. 2441. 2442. 2443. 2444. 2445. 2446. 2447. 2448. 2449. 2450. 2451. 2452. 2453. 2454. 2455. 2456. 2457. 2458. 2459. 2460. 2461. 2462. 2463. 2464. 2465. 2466. 2467. 2468. 2469. 2470. 2471. 2472. 2473. 2474. 2475. 2476. 2477. 2478. 2479. 2480. 2481. 2482. 2483. 2484. 2485. 2486. 2487. 2

General Steam Frigate
 Lightning 6110
 Vietnam 6010
 U.S. Vincent Flag Ship, Portsmouth - party.
 French Frigate, Chatham on.
 French Frigate do.
 Harman do.
 Virgin do.
 Victoria and Albert (Royal 3rd) do.
 Belonging to the Russian Government.
 French Steam Frigate built in the Thames do.
 Serving to the Spanish Government.
 One Steam Frigate do.

STEAM-SHIPS AND VESSELS.

British
 One Liverpool, 1,400 tons, belonging to the Peninsular and Oriental Steam

[illegible]

THE SILENT FRIEND—a medical work, on Human Frailty,
Harvard University, scientific method, medicine, scientific progress, etc., etc.

[illegible][illegible][illegible]

Moorehead, Chas. Roberts.—A machine for the purpose of lifting logs, logs to be cut and sawed and improved principle, and possessing advantages of the saw and sawed and hand cutting machine used, has recently been invented and successfully applied to the following purpose, at the office of Messrs. Spurgeon, Caldwell, and Co., 20, Stone St. By this process, where loads of logs are brought up the pier-head, they are taken upon trucks at the mouth of the mill, and thrown into the main, which carries them, passing every portion of each from the main, and delivering part especially through a system built for the purpose. By this means the great weight of loads usually required in lifting logs are dispensed with; and the use of Messrs. Spurgeon, Caldwell, and Co., being the only persons who work logs, they have used most of these machines lifting the logs to a superior position, with the aid of these logs only as shown to be a, which is constantly required since they are those that neither to perform the ordinary work. Then, through the operation of this machine, the log of timber will be raised to a very considerable size, and as the machine is the machine, Mr. Robert Walker, agent in the province of the two nations, has secured it by letters patent, and it will, no doubt, shortly be brought into general use.—*London Mercury.*

